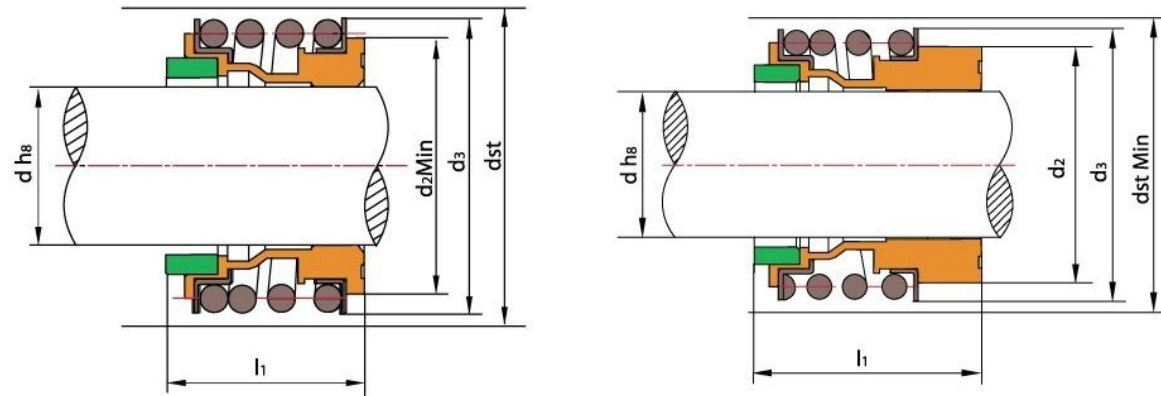


# TS MG1(TSG) TS MG12(TSG2)

## Operating Limits

Pressure: ≤1.2MPa  
 Speed: ≤10m/s  
 Temperature: -20°C~+120°C

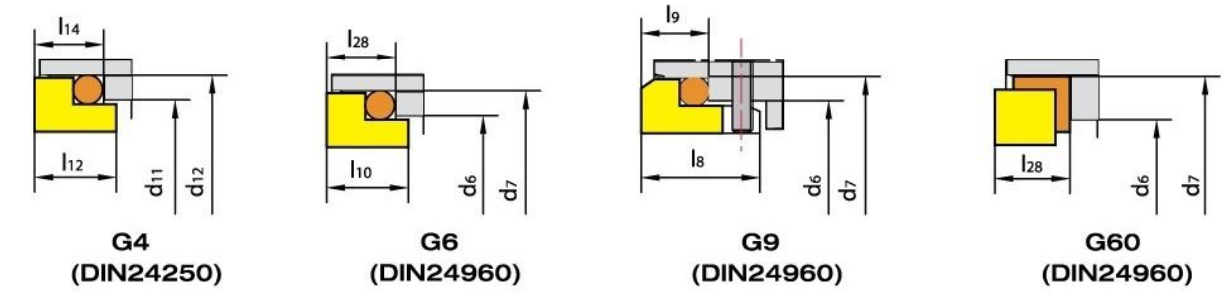


- Rotary Ring (Carbon/SiC/TC)
- Stationary Ring (Ceramic/SiC/TC)
- Secondary Seal (NBR/EPDM/VITON)
- Spring & Other Parts (SUS304/SUS316)

TS MG1					
Seal size d(mm)	d	d <sub>2</sub>	d <sub>3</sub>	d <sub>st</sub>	l <sub>1</sub>
8	8	17.5	19.0	23	12.5
10	10	20.5	22.5	24	14.5
12	12	22.5	25.0	26	15.0
14	14	26.5	28.5	30	17.0
15	15	26.5	28.5	30	17.0
16	16	26.5	28.5	30	17.0
18	18	29.0	32.0	33	19.5
19	19	33.0	37.0	38	21.5
20	20	33.0	37.0	38	21.5
22	22	33.0	37.0	38	21.5
24	24	38.0	42.5	44	22.5
25	25	38.0	42.5	44	23.0
28	28	44.0	49.0	50	26.5
30	30	44.0	49.0	50	26.5
32	32	46.0	53.5	55	27.5
33	33	46.0	53.5	55	27.5
35	35	50.0	57.0	59	28.5
38	38	53.0	59.0	61	30.0
40	40	55.0	62.0	64	30.0
42	42	58.0	65.5	67	30.0
43	43	58.0	65.5	67	30.0
45	45	60.0	68.0	70	30.0
48	48	63.0	70.5	74	30.5
50	50	65.0	74.0	77	30.5
53	53	70.0	78.5	81	33.0
55	55	72.0	81.0	83	35.0
58	58	75.0	85.5	88	37.0
60	60	79.0	88.5	91	38.0
65	65	84.0	93.5	96	40.0
68	68	88.0	96.5	100	40.0
70	70	90.0	99.5	103	40.0
75	75	95.0	107.0	110	40.0
80	80	100.0	112.0	116	40.0
85	85	107.0	120.0	124	41.0
90	90	114.0	127.0	131	45.0
95	95	119.0	132.0	136	46.0
100	100	124.0	137.0	140	47.0

TS MG12					
Seal size d(mm)	d	d <sub>2</sub>	d <sub>st</sub>	d <sub>3</sub>	l <sub>1</sub>
10	10	20.5	24	22.5	25.9
12	12	22.5	26	25.0	25.9
14	14	26.5	30	28.5	28.4
16	16	26.5	30	28.5	28.4
18	18	29.0	33	32.0	30.0
20	20	33.0	38	37.0	30.0
22	22	33.0	38	37.0	30.0
24	24	38.0	44	42.5	32.5
25	25	38.0	44	42.5	32.5
28	28	44.0	50	49.0	35.0
30	30	44.0	50	49.0	35.0
32	32	46.0	55	53.5	35.0
33	33	46.0	55	53.5	35.0
35	35	50.0	59	57.0	35.0
38	38	53.0	61	59.0	36.0
40	40	55.0	64	62.0	36.0
43	43	58.0	67	65.5	36.0
45	45	60.0	70	68.0	36.0
48	48	63.0	74	70.5	36.0
50	50	65.0	77	74.0	38.0
53	53	70.0	81	78.5	36.5
55	55	72.0	83	81.0	36.5
58	58	75.0	88	85.5	41.5
60	60	79.0	91	88.5	41.5
65	65	84.0	96	93.5	41.5
68	68	88.0	100	96.5	41.2
70	70	90.0	103	99.5	48.7
75	75	95.0	110	107.0	48.7
80	80	100.0	116	112.0	48.0
85	85	107.0	124	120.0	46.0
90	90	114.0	131	127.0	51.0
95	95	119.0	136	132.0	51.0
100	100	124.0	140	137.0	51.0

# Stationary Seats



Seal size d(mm)	d <sub>2</sub>	d <sub>3</sub>	d <sub>st</sub>	l <sub>1K</sub>	d <sub>6</sub>	d <sub>7</sub>	G4				G9		G6/G60	
							d <sub>11</sub>	d <sub>12</sub>	l <sub>12</sub>	l <sub>14</sub>	l <sub>8</sub>	l <sub>9</sub>	l <sub>10</sub>	l <sub>28</sub>
8	17.5	19.0	23	\	\	\	\	\	\	18.2	\	5.0	\	\
10	20.5	22.5	24	25.9	17	21.0	15.5	19.2	7.5	6.6	17.5	10.0	7.5	6.6
12	22.5	25.0	26	25.9	19	23.0	17.5	21.6	6.5	5.6	17.5	10.0	7.5	6.6
14	26.5	28.5	30	28.4	\	\	20.5	24.6	6.5	5.6	17.5	10.0	7.5	6.6
15	26.5	28.5	30	28.4	\	\	20.5	24.6	7.5	6.6	\	\	\	\
16	26.5	28.5	30	28.4	23	27.0	22.0	28.0	8.5	7.5	17.5	10.0	7.5	6.6
18	29.0	32.0	33	30.0	27	33.0	24.0	30.0	9.0	8.0	19.5	11.5	8.5	7.5
19	33.0	37.0	38	30.0	\	\	29.5	35.0	\	\	\	\	\	\
20	33.0	37.0	38	30.0	29	35.0	29.5	35.0	8.5	7.5	19.5	11.5	8.5	7.5
22	33.0	37.0	38	30.0	31	37.0	29.5	35.0	8.5	7.5	19.5	11.5	8.5	7.5
24	38.0	42.5	44	32.5	33	39.0	32.0	38.0	8.5	7.5	19.5	11.5	8.5	7.5
25	38.0	42.5	44	32.5	34	40.0	32.0	38.0	8.5	7.5	19.5	11.5	8.5	7.5
28	44.0	49.0	50	35.0	37	43.0	36.0	42.0	10.0	9.0	19.5	11.5	8.5	7.5
30	44.0	49.0	50	35.0	39	45.0	39.2	45.0	11.5	10.5	19.5	11.5	8.5	7.5
32	46.0	53.5	55	35.0	42	48.0	42.2	48.0	11.5	10.5	19.5	11.5	8.5	7.5
33	46.0	53.5	55	35.0	42	48.0	44.2	50.0	12.0	10.5	19.5	11.5	8.5	7.5
35	50.0	57.0	59	35.0	44	50.0	46.2	52.0	12.0	11.0	19.5	11.5	8.5	7.5
38	53.0	59.0	61	36.0	49	56.0	49.2	55.0	11.3	10.3	22.0	14.0	10.0	9.0
40	55.0	62.0	64	36.0	51	58.0	52.2	58.0	11.8	10.8	22.0	14.0	10.0	9.0
42	58.0	65.5	67	36.0	\	\	53.3	62.0	13.2	12.0	\	\	\	\
43	58.0	65.5	67	36.0	54	61.0	53.3	62.0	13.2	12.0	22.0	14.0	10.0	9.0
45	60.0	68.0	70	36.0	56	63.0	55.3	64.0	12.8	11.6	22.0	14.0	10.0	9.0
48	63.0	70.5	74	36.0	59	66.0	59.7	68.4	12.8	11.6	22.0	14.0	10.0	9.0
50	65.0	74.0	77	38.0	62	70.0	60.8	69.3	12.8	11.6	23.0	15.0	10.5	9.5
53	70.0	78.5	81	36.5	65	73.0	63.8	72.3	13.5	12.3	23.0	15.0	12.0	11.0
55	72.0	81.0	83	36.5	67	75.0	66.5	75.4	14.5	13.3	23.0	15.0	12.0	11.0
58	75.0	85.5	88	41.5	70	78.0	69.5	78.4	14.5	13.3	23.0	15.0	12.0	11.0
60	79.0	88.5	91	41.5	72	80.0	71.5	80.4	14.5	13.3	23.0	15.0	12.0	11.0
65	84.0	93.5	96	41.5	77	85.0	76.5	85.4	14.2	13.0	23.0	15.0	12.0	11.0
68	88.0	96.5	100	41.2	81	90.0	82.7	91.5	14.9	13.7	26.0	18.0	12.5	11.3
70	90.0	99.5	103	48.7	83	92.0	83.0	92.0	14.2	13.0	26.0	18.0	12.5	11.3
75	95.0	107.0	110	48.7	88	97.0	90.2	99.0	15.2	14.0	26.0	18.0	12.5	11.3
80	100.0	112.0	116	48.0	95	105.0	95.2	104.0	16.2	15.0	26.2	18.2	13.0	12.0
85	107.0	120.0	124	46.0	100	110.0	100.2	109.0	16.0	14.8	26.2	18.2	15.0	14.0
90	114.0	127.0	131	51.0	105	115.0	105.2	114.0	16.0	14.8	26.2	18.2	15.0	14.0
95	119.0	132.0	136	51.0	110	120.0	111.6	120.3	17.0	15.8	27.2	19.2	15.0	14.0
100	124.0	137.0	140	51.0	115	125.0	114.5	123.3	17.0	15.8	27.2	19.2	15.0	14.0